

F-3
C-3
104.

The antibody of claim ³~~102~~, further defined as a monoclonal antibody.

F-4
107.
4

A kit for the detection of a 5-enolpyruvylshikimate-3-phosphate synthase enzyme in a sample, said kit comprising:

a container comprising an antibody immunoreactive with SEQ ID NO:3 or SEQ ID NO:70; and
a detection agent.

Please add the following claims:

- 108. A plant cell comprising a DNA sequence encoding a polypeptide of sequence SEQ ID NO:3, wherein said polypeptide can be detected using a kit according to claim 107.
109. A plant cell comprising a DNA sequence encoding a polypeptide of sequence SEQ ID NO: 70, wherein said polypeptide can be detected using a kit according to claim 107.
110. A plant cell of claim 108 selected from the group consisting of corn, wheat, rice, barley, soybean, cotton, sugarbeet, oilseed rape, canola, flax, sunflower, potato, tobacco, tomato, alfalfa, poplar, pine, eucalyptus, apple, lettuce, peas, lentils, grape, and turf grasses.
111. A plant cell of claim 109 selected from the group consisting of corn, wheat, rice, barley, soybean, cotton, sugarbeet, oilseed rape, canola, flax, sunflower, potato, tobacco, tomato, alfalfa, poplar, pine, eucalyptus, apple, lettuce, peas, lentils, grape, and turf grasses. --

REMARKS

I. Support for the new claims

The added SEQ ID NO:70 is supported in the original specification at page 53, lines 15-16 in conjunction with Figure 3 (SEQ ID NO:3). SEQ ID NO:3 is the amino acid sequence for the protein encoded by the CP4 EPSPS DNA coding sequence (SEQ ID NO:2). The cited text at page 53 of the specification indicates that the CP4 EPSPS coding region was modified such that